

2002-2012 Arizona Statewide Occupational Projections

Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
00-0000	Total, All Occupations	2,451,323	3,020,765	569,442	23.23%	56,944	58,532	115,476
11-0000	Management Occupations	155,519	188,742	33,223	21.36%	3,322	2,888	6,211
11-1000	Top Executives	41,326	50,790	9,464	22.90%	946	777	1,723
11-1011	Chief Executives	10,784	13,093	2,309	21.41%	231	203	434
11-1021	General and Operations Managers	30,076	37,180	7,104	23.62%	710	567	1,278
11-1031	Legislators	466	517	51	10.94%	5	6	11
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	15,142	19,667	4,525	29.88%	453	277	730
11-2011	Advertising and Promotions Managers	1,468	1,848	380	25.89%	38	27	65
11-2021	Marketing Managers	4,472	5,430	958	21.42%	96	83	178
11-2022	Sales Managers	7,870	10,753	2,883	36.63%	288	145	434
11-2031	Public Relations Managers	1,332	1,636	304	22.82%	30	23	53
11-3000	Operations Specialties Managers	32,508	40,115	7,607	23.40%	761	560	1,321
11-3011	Administrative Services Managers	5,752	7,098	1,346	23.40%	135	112	246
11-3021	Computer and Information Systems Managers	5,005	6,474	1,469	29.35%	147	91	238
11-3031	Financial Managers	11,438	14,481	3,043	26.60%	304	164	468
11-3040	Human Resources Managers	4,336	5,354	1,018	23.48%	102	73	175
11-3051	Industrial Production Managers	2,523	2,727	204	8.09%	20	49	69
11-3061	Purchasing Managers	1,933	2,139	206	10.66%	21	42	63
11-3071	Transportation, Storage, and Distribution Managers	1,521	1,842	321	21.10%	32	30	62
11-9000	Other Management Occupations	66,543	78,170	11,627	17.47%	1,163	1,274	2,437
11-9011	Farm, Ranch, and Other Agricultural Managers	2,600	2,460	-140	-5.38%	0	45	45
11-9012	Farmers and Ranchers	76	52	-24	-31.58%	0	0	0
11-9021	Construction Managers	5,275	6,634	1,359	25.76%	136	96	232
11-9031	Education Administrators, Preschool and Child Care Center/Program	1,175	1,516	341	29.02%	34	29	63
11-9032	Education Administrators, Elementary and Secondary School	3,346	4,299	953	28.48%	95	83	178
11-9033	Education Administrators, Postsecondary	2,153	2,582	429	19.93%	43	53	96
11-9039	Education Administrators, All Other	264	333	69	26.14%	7	7	14
11-9041	Engineering Managers	5,142	5,688	546	10.62%	55	102	157
11-9051	Food Service Managers	11,807	13,686	1,879	15.91%	188	193	380
11-9061	Funeral Directors	132	134	2	1.52%	#	4	4
11-9071	Gaming Managers	429	419	-10	-2.33%	0	8	8
11-9081	Lodging Managers	1,546	1,677	131	8.47%	13	26	39
11-9111	Medical and Health Services Managers	4,199	6,432	2,233	53.18%	223	82	305
11-9121	Natural Sciences Managers	520	593	73	14.04%	7	10	17
11-9131	Postmasters and Mail Superintendents	171	195	24	14.04%	2	3	6
11-9141	Property, Real Estate, and Community Association Managers	6,514	7,585	1,071	16.44%	107	122	229

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11-9151	Social and Community Service Managers	3,284	4,380	1,096	33.37%	110	63	173
11-9199	Managers, All Other	17,910	19,505	1,595	8.91%	160	349	508
13-0000	Business and Financial Operations Occupations	94,013	118,401	24,388	25.94%	2,439	1,634	4,073
13-1000	Business Operations Specialists	51,100	64,615	13,515	26.45%	1,352	880	2,232
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	182	220	38	20.88%	4	4	7
13-1021	Purchasing Agents and Buyers, Farm Products	426	532	106	24.88%	11	15	25
13-1022	Wholesale and Retail Buyers, Except Farm Products	2,758	3,197	439	15.92%	44	72	116
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	4,179	4,879	700	16.75%	70	104	174
13-1031	Claims Adjusters, Examiners, and Investigators	4,791	6,092	1,301	27.16%	130	59	189
13-1032	Insurance Appraisers, Auto Damage	295	359	64	21.69%	6	4	10
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	2,161	2,547	386	17.86%	39	51	89
13-1051	Cost Estimators	3,517	4,511	994	28.26%	99	79	178
13-1061	Emergency Management Specialists	85	108	23	27.06%	2	2	4
13-1071	Employment, Recruitment, and Placement Specialists	3,633	4,738	1,105	30.42%	111	56	166
13-1072	Compensation, Benefits, and Job Analysis Specialists	1,234	1,631	397	32.17%	40	19	59
13-1073	Training and Development Specialists	5,345	6,878	1,533	28.68%	153	82	235
13-1111	Management Analysts	14,108	17,992	3,884	27.53%	388	193	581
13-1121	Meeting and Convention Planners	718	872	154	21.45%	15	16	31
13-1199	Business Operations Specialists, All Other	7,668	10,059	2,391	31.18%	239	131	370
13-2000	Financial Specialists	42,913	53,786	10,873	25.34%	1,087	754	1,841
13-2011	Accountants and Auditors	19,270	24,098	4,828	25.05%	483	364	847
13-2021	Appraisers and Assessors of Real Estate	1,299	1,598	299	23.02%	30	28	58
13-2031	Budget Analysts	2,576	3,033	457	17.74%	46	42	88
13-2041	Credit Analysts	3,049	3,735	686	22.50%	69	48	116
13-2051	Financial Analysts	3,559	4,352	793	22.28%	79	53	132
13-2052	Personal Financial Advisors	1,343	1,970	627	46.69%	63	17	80
13-2053	Insurance Underwriters	1,418	1,709	291	20.52%	29	25	54
13-2061	Financial Examiners	418	530	112	26.79%	11	10	21
13-2071	Loan Counselors	803	1,020	217	27.02%	22	13	35
13-2072	Loan Officers	4,656	6,290	1,634	35.09%	163	75	238
13-2081	Tax Examiners, Collectors, and Revenue Agents	448	514	66	14.73%	7	10	17
13-2082	Tax Preparers	1,684	2,021	337	20.01%	34	28	61
13-2099	Financial Specialists, All Other	2,390	2,916	526	22.01%	53	42	95
15-0000	Computer and Mathematical Occupations	48,475	59,554	11,079	22.86%	1,108	660	1,768
15-1000	Computer Specialists	47,209	58,167	10,958	23.21%	1,096	629	1,725

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15-1011	Computer and Information Scientists, Research	496	545	49	9.88%	5	6	11
15-1021	Computer Programmers	7,850	8,249	399	5.08%	40	185	225
15-1031	Computer Software Engineers, Applications	4,488	5,748	1,260	28.07%	126	44	170
15-1032	Computer Software Engineers, Systems Software	5,016	6,108	1,092	21.77%	109	50	159
15-1041	Computer Support Specialists	13,156	15,903	2,747	20.88%	275	162	437
15-1051	Computer Systems Analysts	6,799	8,859	2,060	30.30%	206	77	283
15-1061	Database Administrators	1,615	2,218	603	37.34%	60	17	77
15-1071	Network and Computer Systems Administrators	3,998	5,168	1,170	29.26%	117	44	161
15-1081	Network Systems and Data Communications Analysts	2,547	3,668	1,121	44.01%	112	30	142
15-1099	Computer Specialists, All Other	1,244	1,701	457	36.74%	46	14	60
15-2000	Mathematical Scientists	1,266	1,387	121	9.56%	12	31	43
15-2011	Actuaries	81	95	14	17.28%	1	4	5
15-2021	Mathematicians	45	44	-1	-2.22%	0	2	2
15-2031	Operations Research Analysts	1,018	1,123	105	10.31%	11	22	33
15-2041	Statisticians	102	106	4	3.92%	#	3	3
15-2091	Mathematical Technicians	**	**	**	**	**	**	**
15-2099	Mathematical Science Occupations, All Other	14	13	-1	-7.14%	0	0	0
17-0000	Architecture and Engineering Occupations	58,899	65,913	7,014	11.91%	701	1,290	1,992
17-1000	Architects, Surveyors, and Cartographers	4,982	6,258	1,276	25.61%	128	93	221
17-1011	Architects, Except Landscape and Naval	2,524	3,287	763	30.23%	76	29	105
17-1012	Landscape Architects	861	1,100	239	27.76%	24	10	34
17-1021	Cartographers and Photogrammetrists	131	171	40	30.53%	4	5	9
17-1022	Surveyors	1,387	1,603	216	15.57%	22	47	69
17-1099	Architects, Surveyors, and Cartographers, All Other (OES)	79	97	18	22.78%	2	3	5
17-2000	Engineers	30,942	34,446	3,504	11.32%	350	656	1,006
17-2011	Aerospace Engineers	4,069	4,273	204	5.01%	20	101	121
17-2021	Agricultural Engineers	54	65	11	20.37%	1	2	3
17-2031	Biomedical Engineers	193	276	83	43.01%	8	3	12
17-2041	Chemical Engineers	202	228	26	12.87%	3	6	9
17-2051	Civil Engineers	4,956	5,821	865	17.45%	87	79	166
17-2061	Computer Hardware Engineers	1,809	1,800	-9	-0.50%	0	30	30
17-2071	Electrical Engineers	3,974	4,144	170	4.28%	17	78	95
17-2072	Electronics Engineers, Except Computer	4,548	4,756	208	4.57%	21	89	110
17-2081	Environmental Engineers	766	1,078	312	40.73%	31	13	44
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	987	1,180	193	19.55%	19	24	43
17-2112	Industrial Engineers	2,767	3,251	484	17.49%	48	67	115
17-2121	Marine Engineers and Naval Architects	13	11	-2	-15.38%	0	1	1

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17-2131	Materials Engineers	497	513	16	3.22%	2	13	15
17-2141	Mechanical Engineers	3,730	3,754	24	0.64%	2	102	104
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	193	211	18	9.33%	2	6	7
17-2161	Nuclear Engineers	55	73	18	32.73%	2	2	3
17-2171	Petroleum Engineers	23	29	6	26.09%	#	1	1
17-2199	Engineers, All Other	2,106	2,983	877	41.64%	88	40	128
17-3000	Drafters, Engineering, and Mapping Technicians	22,975	25,209	2,234	9.72%	223	541	764
17-3011	Architectural and Civil Drafters	1,748	1,993	245	14.02%	25	49	74
17-3012	Electrical and Electronics Drafters	2,077	2,189	112	5.39%	11	58	70
17-3013	Mechanical Drafters	1,356	1,414	58	4.28%	6	38	44
17-3021	Aerospace Engineering and Operations Technicians	1,211	1,279	68	5.62%	7	25	32
17-3022	Civil Engineering Technicians	1,623	1,931	308	18.98%	31	34	65
17-3023	Electrical and Electronic Engineering Technicians	8,266	8,685	419	5.07%	42	173	215
17-3024	Electro-Mechanical Technicians	246	287	41	16.67%	4	5	9
17-3025	Environmental Engineering Technicians	350	464	114	32.57%	11	7	19
17-3026	Industrial Engineering Technicians	2,055	2,084	29	1.41%	3	43	46
17-3027	Mechanical Engineering Technicians	1,046	1,175	129	12.33%	13	22	35
17-3031	Surveying and Mapping Technicians	1,081	1,450	369	34.14%	37	39	76
17-3099	Drafters, Engineering, and Mapping Technicians, All Other (OES Only)	1,916	2,258	342	17.85%	34	46	80
19-0000	Life, Physical, and Social Science Occupations	14,451	17,755	3,304	22.86%	330	346	676
19-1000	Life Scientists	1,649	2,128	479	29.05%	48	41	89
19-1010	Agricultural and Food Scientists	87	93	6	6.90%	#	2	2
19-1021	Biochemists and Biophysicists	98	139	41	41.84%	4	3	7
19-1022	Microbiologists	117	157	40	34.19%	4	4	8
19-1023	Zoologists and Wildlife Biologists	183	208	25	13.66%	3	6	8
19-1029	Biological Scientists, All Other	214	242	28	13.08%	3	7	10
19-1031	Conservation Scientists	123	138	15	12.20%	2	4	5
19-1032	Foresters	160	179	19	11.88%	2	5	7
19-1041	Epidemiologists	64	102	38	59.38%	4	1	5
19-1042	Medical Scientists, Except Epidemiologists	354	526	172	48.59%	17	6	23
19-1099	Life Scientists, All Other	249	344	95	38.15%	10	4	14
19-2000	Physical Scientists	3,040	3,642	602	19.80%	60	66	126
19-2011	Astronomers	97	106	9	9.28%	#	3	3
19-2012	Physicists	94	105	11	11.70%	1	3	4
19-2021	Atmospheric and Space Scientists	76	84	8	10.53%	#	3	3
19-2031	Chemists	514	637	123	23.93%	12	17	29

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19-2032	Materials Scientists	164	202	38	23.17%	4	5	9
19-2041	Environmental Scientists and Specialists, Including Health	816	1,060	244	29.90%	24	15	39
19-2042	Geoscientists, Except Hydrologists and Geographers	168	222	54	32.14%	5	3	8
19-2043	Hydrologists	390	474	84	21.54%	8	7	15
19-2099	Physical Scientists, All Other	721	752	31	4.30%	3	16	20
19-3000	Social Scientists and Related Workers	6,170	7,770	1,600	25.93%	160	155	315
19-3011	Economists	182	237	55	30.22%	6	5	11
19-3021	Market Research Analysts	2,008	2,553	545	27.14%	55	52	107
19-3022	Survey Researchers	405	524	119	29.38%	12	11	22
19-3031	Clinical, Counseling, and School Psychologists	1,840	2,423	583	31.68%	58	40	99
19-3032	Industrial-Organizational Psychologists	31	35	4	12.90%	#	1	1
19-3041	Sociologists	48	57	9	18.75%	#	2	2
19-3051	Urban and Regional Planners	847	1,022	175	20.66%	18	28	46
19-3091	Anthropologists and Archeologists	176	203	27	0	3	4	6
19-3092	Geographers	**	**	**	**	**	**	**
19-3093	Historians	16	18	2	12.50%	#	0	0
19-3094	Political Scientists	**	**	**	**	**	**	**
19-3099	Social Scientists and Related Workers, All Other	608	688	80	13.16%	8	13	21
19-4000	Life, Physical, and Social Science Technicians	3,592	4,215	623	17.34%	62	84	146
19-4011	Agricultural and Food Science Technicians	53	60	7	13.21%	#	1	1
19-4021	Biological Technicians	223	283	60	26.91%	6	4	10
19-4031	Chemical Technicians	459	538	79	17.21%	8	11	19
19-4041	Geological and Petroleum Technicians	57	57	0	0.00%	0	2	2
19-4051	Nuclear Technicians	**	**	**	**	**	**	**
19-4091	Environmental Science and Protection Technicians, Including Health	134	187	53	39.55%	5	3	9
19-4092	Forensic Science Technicians	357	469	112	31.37%	11	8	20
19-4093	Forest and Conservation Technicians	501	560	59	11.78%	6	12	18
19-4099	Life, Physical, and Social Science Technicians, All Other	1,807	2,059	252	13.95%	25	43	68
21-0000	Community and Social Services Occupations	29,929	40,261	10,332	34.52%	1,033	553	1,586
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	24,312	33,598	9,286	38.20%	929	466	1,394
21-1011	Substance Abuse and Behavioral Disorder Counselors	965	1,351	386	40.00%	39	22	61
21-1012	Educational, Vocational, and School Counselors	3,680	4,329	649	17.64%	65	84	149
21-1013	Marriage and Family Therapists	520	729	209	40.19%	21	12	33
21-1014	Mental Health Counselors	1,528	2,213	685	44.83%	69	35	103
21-1015	Rehabilitation Counselors	1,322	1,918	596	45.08%	60	30	90
21-1021	Child, Family, and School Social Workers	5,154	6,716	1,562	30.31%	156	88	244

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21-1022	Medical and Public Health Social Workers	1,173	1,819	646	55.07%	65	20	85
21-1023	Mental Health and Substance Abuse Social Workers	2,403	3,452	1,049	43.65%	105	41	146
21-1091	Health Educators	480	631	151	31.46%	15	9	24
21-1092	Probation Officers and Correctional Treatment Specialists	2,852	3,477	625	21.91%	63	50	113
21-1093	Social and Human Service Assistants	4,235	6,963	2,728	64.42%	273	75	347
21-2000	Religious Workers	3,951	4,451	500	12.66%	50	56	106
21-2011	Clergy	1,333	1,449	116	8.70%	12	27	39
21-2021	Directors, Religious Activities and Education	2,618	3,002	384	14.67%	38	29	67
21-9000	Miscellaneous Counselors, Social, & Religious Workers	1,666	2,212	546	32.77%	55	31	86
21-9099	Counselors, Social, and Religious Workers, All Other (OES)	1,666	2,212	546	32.77%	55	31	86
23-0000	Legal Occupations	19,221	23,464	4,243	22.07%	424	223	648
23-1000	Lawyers, Judges, and Related Workers	12,469	15,225	2,756	22.10%	276	160	436
23-1011	Lawyers	11,786	14,408	2,622	22.25%	262	152	414
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	230	269	39	16.96%	4	3	7
23-1022	Arbitrators, Mediators, and Conciliators	50	58	8	16.00%	#	1	1
23-1023	Judges, Magistrate Judges, and Magistrates	403	490	87	21.59%	9	5	14
23-2000	Legal Support Workers	5,947	7,283	1,336	22.47%	134	54	188
23-2011	Paralegals and Legal Assistants	3,673	4,791	1,118	30.44%	112	30	141
23-2091	Court Reporters	267	316	49	18.35%	5	3	8
23-2092	Law Clerks	1,172	1,268	96	8.19%	10	13	22
23-2093	Title Examiners, Abstractors, and Searchers	835	908	73	8.74%	7	9	16
23-9000	Miscellaneous Legal & Related Workers	805	956	151	18.76%	15	9	24
23-9099	Legal and Related Workers, All Other (OES Only)	805	956	151	18.76%	15	9	24
25-0000	Education, Training, and Library Occupations	134,182	170,792	36,610	27.28%	3,661	2,792	6,453
25-1000	Postsecondary Teachers	29,794	38,959	9,165	30.76%	917	644	1,561
25-1011	Business Teachers, Postsecondary	2,101	2,759	658	31.32%	66	47	113
25-1021	Computer Science Teachers, Postsecondary	1,941	2,543	602	31.01%	60	44	104
25-1022	Mathematical Science Teachers, Postsecondary	1,787	2,306	519	29.04%	52	40	92
25-1031	Architecture Teachers, Postsecondary	218	280	62	28.44%	6	5	11
25-1032	Engineering Teachers, Postsecondary	953	1,241	288	30.22%	29	22	50
25-1041	Agricultural Sciences Teachers, Postsecondary	536	677	141	26.31%	14	12	26
25-1042	Biological Science Teachers, Postsecondary	880	1,133	253	0	25	20	45
25-1043	Forestry and Conservation Science Teachers, Postsecondary	**	**	**	**	**	**	**
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	151	192	41	27.15%	4	3	8
25-1052	Chemistry Teachers, Postsecondary	1,220	1,590	370	30.33%	37	28	65
25-1053	Environmental Science Teachers, Postsecondary	239	307	68	28.45%	7	5	12
25-1054	Physics Teachers, Postsecondary	566	726	160	28.27%	16	13	29

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25-1061	Anthropology and Archeology Teachers, Postsecondary	12	15	3	25.00%	#	0	0
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	239	307	68	28.45%	7	5	12
25-1063	Economics Teachers, Postsecondary	881	1,139	258	29.28%	26	20	46
25-1064	Geography Teachers, Postsecondary	43	57	14	32.56%	1	1	2
25-1065	Political Science Teachers, Postsecondary	361	485	124	34.35%	12	8	21
25-1066	Psychology Teachers, Postsecondary	309	400	91	29.45%	9	7	16
25-1067	Sociology Teachers, Postsecondary	824	1,054	230	27.91%	23	19	42
25-1071	Health Specialties Teachers, Postsecondary	1,708	2,251	543	31.79%	54	39	93
25-1072	Nursing Instructors and Teachers, Postsecondary	1,064	1,366	302	28.38%	30	24	54
25-1081	Education Teachers, Postsecondary	982	1,306	324	32.99%	32	22	55
25-1082	Library Science Teachers, Postsecondary	**	**	**	**	**	**	**
25-1111	Criminal Justice and Law Enforcement Teachers,	383	478	95	0	10	9	18
25-1112	Law Teachers, Postsecondary	295	388	93	0	9	7	16
25-1113	Social Work Teachers, Postsecondary	**	**	**	**	**	**	**
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,524	2,089	565	37.07%	57	34	91
25-1122	Communications Teachers, Postsecondary	837	1,102	265	31.66%	27	19	45
25-1123	English Language and Literature Teachers, Postsecondary	1,814	2,358	544	29.99%	54	41	95
25-1124	Foreign Language and Literature Teachers, Postsecondary	522	705	183	35.06%	18	12	30
25-1125	History Teachers, Postsecondary	137	180	43	31.39%	4	3	7
25-1126	Philosophy and Religion Teachers, Postsecondary	138	184	46	33.33%	5	3	8
25-1191	Graduate Teaching Assistants	1,177	1,470	293	24.89%	29	27	56
25-1192	Home Economics Teachers, Postsecondary	66	86	20	30.30%	2	2	4
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	369	490	121	32.79%	12	8	20
25-1194	Vocational Education Teachers, Postsecondary	2,491	3,461	970	38.94%	97	56	153
25-1199	Postsecondary Teachers, All Other	3,025	3,833	808	26.71%	81	68	149
25-2000	Primary, Secondary, and Special Education School Teachers	64,385	80,604	16,219	25.19%	1,622	1,411	3,033
25-2011	Preschool Teachers, Except Special Education	7,431	9,698	2,267	30.51%	227	88	315
25-2012	Kindergarten Teachers, Except Special Education	3,112	4,192	1,080	34.70%	108	37	145
25-2021	Elementary School Teachers, Except Special Education	25,804	31,562	5,758	22.31%	576	570	1,145
25-2022	Middle School Teachers, Except Special and Vocational	7,736	8,963	1,227	15.86%	123	171	293
25-2023	Vocational Education Teachers, Middle School	160	187	27	16.88%	3	4	6
25-2031	Secondary School Teachers, Except Special and Vocational Education	13,447	16,919	3,472	25.82%	347	378	726
25-2032	Vocational Education Teachers, Secondary School	890	1,041	151	16.97%	15	25	40
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	3,450	4,775	1,325	38.41%	133	82	215
25-2042	Special Education Teachers, Middle School	774	1,076	302	39.02%	30	18	49
25-2043	Special Education Teachers, Secondary School	1,581	2,191	610	38.58%	61	38	99

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
25-3000	Other Teachers and Instructors	9,616	13,388	3,772	39.23%	377	118	496
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	1,033	1,265	232	22.46%	23	13	36
25-3021	Self-Enrichment Education Teachers	4,274	6,048	1,774	41.51%	177	53	230
25-3999	Teachers, Primary, Secondary, and Adult, All Other (OES)	4,309	6,075	1,766	40.98%	177	53	230
25-4000	Librarians, Curators, and Archivists	5,168	6,008	840	16.25%	84	146	230
25-4010	Archivists, Curators, and Museum Technicians	875	982	107	12.23%	11	19	30
25-4021	Librarians	2,431	2,774	343	14.11%	34	58	92
25-4031	Library Technicians	1,862	2,252	390	20.95%	39	69	108
25-9000	Other Education, Training, and Library Occupations	25,219	31,833	6,614	26.23%	661	472	1,134
25-9011	Audio-Visual Collections Specialists	438	480	42	9.59%	4	7	11
25-9021	Farm and Home Management Advisors	26	26	0	0.00%	0	0	0
25-9031	Instructional Coordinators	3,042	3,810	768	25.25%	77	46	123
25-9041	Teacher Assistants	21,577	27,336	5,759	26.69%	576	417	993
25-9199	Library, Museum, Training, and Other Education Workers, All Other (OES Only)	136	181	45	33.09%	5	2	7
27-0000	Arts, Design, Entertainment, Sports, and Media	31,634	37,378	5,744	18.16%	574	595	1,169
27-1000	Art and Design Workers	11,554	13,914	2,360	20.43%	236	171	407
27-1011	Art Directors	429	461	32	7.46%	3	9	13
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	443	536	93	20.99%	9	10	19
27-1014	Multi-Media Artists and Animators	696	726	30	4.31%	3	15	18
27-1021	Commercial and Industrial Designers	775	998	223	28.77%	22	10	33
27-1022	Fashion Designers	46	61	15	32.61%	2	1	2
27-1023	Floral Designers	1,609	2,071	462	28.71%	46	22	68
27-1024	Graphic Designers	3,733	4,494	761	20.39%	76	50	126
27-1025	Interior Designers	1,123	1,397	274	24.40%	27	15	42
27-1026	Merchandise Displayers and Window Trimmers	1,598	1,898	300	18.77%	30	21	51
27-1027	Set and Exhibit Designers	226	262	36	15.93%	4	3	7
27-1099	Art and Design Workers, All Other (OES Only)	876	1,010	134	15.30%	13	16	29
27-2000	Entertainers and Performers, Sports and Related Workers	5,654	6,609	955	16.89%	96	129	225
27-2011	Actors	474	540	66	13.92%	7	6	13
27-2012	Producers and Directors	692	778	86	12.43%	9	10	19
27-2021	Athletes and Sports Competitors	317	390	73	23.03%	7	6	13
27-2022	Coaches and Scouts	1,718	2,052	334	19.44%	33	33	66
27-2023	Umpires, Referees, and Other Sports Officials	93	115	22	23.66%	2	2	4
27-2031	Dancers	36	38	2	5.56%	#	2	2
27-2032	Choreographers	605	736	131	21.65%	13	37	50
27-2041	Music Directors and Composers	227	248	21	9.25%	2	5	7

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
27-2042	Musicians and Singers	1,074	1,255	181	16.85%	18	23	41
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	418	457	39	9.33%	4	5	9
27-3000	Media and Communication Workers	9,919	11,770	1,851	18.66%	185	197	382
27-3010	Announcers	905	883	-22	-2.43%	0	23	23
27-3020	News Analysts, Reporters and Correspondents	860	965	105	12.21%	11	21	31
27-3031	Public Relations Specialists	2,048	2,761	713	34.81%	71	29	101
27-3041	Editors	1,729	1,922	193	11.16%	19	42	61
27-3042	Technical Writers	1,187	1,365	178	15.00%	18	34	52
27-3043	Writers and Authors	1,756	2,025	269	15.32%	27	30	57
27-3091	Interpreters and Translators	808	1,061	253	31.31%	25	10	35
27-3099	Media and Communication Workers, All Other	626	788	162	25.88%	16	8	24
27-4000	Media and Communication Equipment Workers	4,507	5,085	578	12.82%	58	98	156
27-4011	Audio and Video Equipment Technicians	668	780	112	16.77%	11	16	28
27-4012	Broadcast Technicians	488	548	60	12.30%	6	12	18
27-4013	Radio Operators	16	14	-2	-12.50%	0	0	0
27-4014	Sound Engineering Technicians	147	212	65	44.22%	7	4	10
27-4021	Photographers	2,589	2,866	277	10.70%	28	53	81
27-4031	Camera Operators, Television, Video, and Motion Picture	264	290	26	9.85%	3	6	8
27-4032	Film and Video Editors	155	173	18	11.61%	2	3	5
27-4099	Media and Communication Equipment Workers, All Other	180	202	22	12.22%	2	4	6
29-0000	Healthcare Practitioners and Technical Occupations	100,971	153,651	52,680	52.17%	5,268	1,938	7,206
29-1000	Health Diagnosing and Treating Practitioners	62,690	94,986	32,296	51.52%	3,230	1,222	4,451
29-1011	Chiropractors	1,101	1,397	296	26.88%	30	21	51
29-1020	Dentists	4,319	5,347	1,028	23.80%	103	72	175
29-1031	Dietitians and Nutritionists	932	1,290	358	38.41%	36	24	60
29-1041	Optometrists	381	453	72	18.90%	7	11	18
29-1051	Pharmacists	3,192	4,809	1,617	50.66%	162	62	224
29-1061	Anesthesiologists	392	552	160	40.82%	16	5	21
29-1062	Family and General Practitioners	2,508	3,535	1,027	40.95%	103	34	136
29-1063	Internists, General	566	779	213	37.63%	21	8	29
29-1064	Obstetricians and Gynecologists	201	278	77	38.31%	8	3	10
29-1065	Pediatricians, General	273	378	105	38.46%	11	4	14
29-1066	Psychiatrists	228	319	91	39.91%	9	3	12
29-1067	Surgeons	248	339	91	36.69%	9	3	12
29-1069	Physicians and Surgeons, All Other	3,134	4,156	1,022	32.61%	102	42	144
29-1071	Physician Assistants	2,113	3,735	1,622	76.76%	162	33	195
29-1081	Podiatrists	265	330	65	24.53%	7	6	13

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
29-1111	Registered Nurses	34,187	54,328	20,141	58.91%	2,014	715	2,729
29-1121	Audiologists	257	348	91	35.41%	9	6	15
29-1122	Occupational Therapists	837	1,313	476	56.87%	48	11	59
29-1123	Physical Therapists	2,360	3,693	1,333	56.48%	133	23	157
29-1124	Radiation Therapists	212	348	136	64.15%	14	5	18
29-1125	Recreational Therapists	391	513	122	31.20%	12	9	22
29-1126	Respiratory Therapists	1,376	2,350	974	70.78%	97	45	143
29-1127	Speech-Language Pathologists	1,226	1,688	462	37.68%	46	31	77
29-1131	Veterinarians	1,235	1,463	228	18.46%	23	30	53
29-1199	Health Diagnosing and Treating Practitioners, All Other	756	1,245	489	64.68%	49	16	65
29-2000	Health Technologists and Technicians	36,438	55,817	19,379	53.18%	1,938	681	2,619
29-2011	Medical and Clinical Laboratory Technologists	2,431	3,690	1,259	51.79%	126	66	191
29-2012	Medical and Clinical Laboratory Technicians	4,753	7,264	2,511	52.83%	251	128	379
29-2021	Dental Hygienists	1,677	2,877	1,200	71.56%	120	14	134
29-2031	Cardiovascular Technologists and Technicians	500	786	286	57.20%	29	9	38
29-2032	Diagnostic Medical Sonographers	748	1,145	397	53.07%	40	14	54
29-2033	Nuclear Medicine Technologists	177	272	95	53.67%	10	3	13
29-2034	Radiologic Technologists and Technicians	3,941	5,940	1,999	50.72%	200	74	274
29-2041	Emergency Medical Technicians and Paramedics	1,544	3,221	1,677	108.61%	168	18	185
29-2051	Dietetic Technicians	889	1,324	435	48.93%	44	12	55
29-2052	Pharmacy Technicians	2,856	4,270	1,414	49.51%	141	37	179
29-2053	Psychiatric Technicians	552	801	249	45.11%	25	7	32
29-2054	Respiratory Therapy Technicians	677	1,172	495	73.12%	50	9	58
29-2055	Surgical Technologists	1,409	2,306	897	63.66%	90	18	108
29-2056	Veterinary Technologists and Technicians	1,507	2,040	533	35.37%	53	20	73
29-2061	Licensed Practical and Licensed Vocational Nurses	8,820	12,280	3,460	39.23%	346	192	538
29-2071	Medical Records and Health Information Technicians	2,998	5,191	2,193	73.15%	219	43	262
29-2081	Opticians, Dispensing	945	1,219	274	28.99%	27	17	44
29-2091	Orthotists and Prosthetists	14	19	5	35.71%	#	0	0
29-9000	Other Healthcare Practitioners and Technical Occupations	454	551	97	21.37%	10	10	20
29-9010	Occupational Health and Safety Specialists and Technicians	390	470	80	20.51%	8	9	17
29-9091	Athletic Trainers	64	81	17	26.56%	2	1	3
29-9100	Other Health Practitioners And Technical Workers	1,389	2,297	908	65.37%	91	25	116
29-9199	Health Professionals and Technicians, All Other (OES Only)	1,389	2,297	908	65.37%	91	25	116
31-0000	Healthcare Support Occupations	57,527	92,404	34,877	60.63%	3,488	949	4,436
31-1000	Nursing, Psychiatric, and Home Health Aides	29,650	46,513	16,863	56.87%	1,686	389	2,075
31-1011	Home Health Aides	10,387	17,559	7,172	69.05%	717	136	853
31-1012	Nursing Aides, Orderlies, and Attendants	18,386	27,624	9,238	50.24%	924	241	1,165

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
31-1013	Psychiatric Aides	877	1,330	453	51.65%	45	12	57
31-2000	Occupational and Physical Therapist Assistants and Aides	3,179	5,193	2,014	63.35%	201	52	253
31-2011	Occupational Therapist Assistants	210	325	115	54.76%	12	3	14
31-2012	Occupational Therapist Aides	112	173	61	54.46%	6	1	8
31-2021	Physical Therapist Assistants	1,368	2,243	875	63.96%	88	23	110
31-2022	Physical Therapist Aides	1,489	2,452	963	64.67%	96	25	121
31-9000	Other Healthcare Support Occupations	24,698	40,698	16,000	64.78%	1,600	508	2,108
31-9011	Massage Therapists	1,723	2,168	445	25.83%	45	33	78
31-9091	Dental Assistants	5,284	8,983	3,699	70.00%	370	148	518
31-9092	Medical Assistants	10,950	19,542	8,592	78.47%	859	203	1,062
31-9093	Medical Equipment Preparers	606	934	328	54.13%	33	11	44
31-9094	Medical Transcriptionists	1,434	2,025	591	41.21%	59	27	86
31-9095	Pharmacy Aides	1,319	1,762	443	33.59%	44	24	69
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	878	1,055	177	20.16%	18	16	34
31-9099	Healthcare Support Workers, All Other	2,504	4,229	1,725	68.89%	173	46	219
33-0000	Protective Service Occupations	60,111	76,658	16,547	27.53%	1,655	1,683	3,338
33-1000	First-Line Supervisors/Managers, Protective Service Workers	6,158	7,721	1,563	25.38%	156	198	354
33-1011	First-Line Supervisors/Managers of Correctional Officers	1,179	1,518	339	28.75%	34	35	69
33-1012	First-Line Supervisors/Managers of Police and Detectives	2,364	2,989	625	26.44%	63	78	141
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	1,183	1,547	364	30.77%	36	49	85
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	1,432	1,667	235	16.41%	24	36	60
33-2000	Fire Fighting and Prevention Workers	4,268	5,565	1,297	30.39%	130	124	253
33-2011	Fire Fighters	3,990	5,240	1,250	31.33%	125	116	241
33-2021	Fire Inspectors and Investigators	241	280	39	16.18%	4	7	11
33-2022	Forest Fire Inspectors and Prevention Specialists	37	45	8	21.62%	#	1	1
33-3000	Law Enforcement Workers	23,171	31,735	8,564	36.96%	856	552	1,408
33-3011	Bailiffs	220	267	47	21.36%	5	5	9
33-3012	Correctional Officers and Jailers	9,146	12,488	3,342	36.54%	334	190	524
33-3021	Detectives and Criminal Investigators	1,439	1,966	527	36.62%	53	39	91
33-3031	Fish and Game Wardens	246	287	41	16.67%	4	6	10
33-3041	Parking Enforcement Workers	**	**	**	**	**	**	**
33-3051	Police and Sheriff's Patrol Officers	11,953	16,539	4,586	38.37%	459	309	768
33-3052	Transit and Railroad Police	**	**	**	**	**	**	**
33-9000	Other Protective Service Workers	26,514	31,637	5,123	19.32%	512	810	1,322
33-9011	Animal Control Workers	356	431	75	21.07%	8	25	32
33-9021	Private Detectives and Investigators	758	1,016	258	34.04%	26	16	42

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
33-9031	Gaming Surveillance Officers and Gaming Investigators	482	589	107	22.20%	11	11	21
33-9032	Security Guards	19,630	23,221	3,591	18.29%	359	427	786
33-9091	Crossing Guards	940	1,184	244	25.96%	24	30	55
33-9099	Protective Service Workers, All Other	4,348	5,196	848	19.50%	85	301	386
35-0000	Food Preparation and Serving Related Occupations	192,660	234,458	41,798	21.70%	4,180	7,656	11,835
35-1000	Supervisors, Food Preparation and Serving Workers	14,701	17,863	3,162	21.51%	316	359	675
35-1011	Chefs and Head Cooks	1,530	1,796	266	17.39%	27	45	72
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	13,171	16,067	2,896	21.99%	290	313	603
35-2000	Cooks and Food Preparation Workers	46,400	54,905	8,505	18.33%	851	1,507	2,357
35-2011	Cooks, Fast Food	11,114	12,470	1,356	12.20%	136	344	480
35-2012	Cooks, Institution and Cafeteria	4,792	5,128	336	7.01%	34	148	182
35-2013	Cooks, Private Household	26	28	2	7.69%	#	1	1
35-2014	Cooks, Restaurant	12,030	14,336	2,306	19.17%	231	372	603
35-2015	Cooks, Short Order	2,599	3,103	504	19.39%	50	81	131
35-2021	Food Preparation Workers	15,839	19,840	4,001	25.26%	400	560	960
35-3000	Food and Beverage Serving Workers	104,168	129,389	25,221	24.21%	2,522	4,881	7,403
35-3011	Bartenders	7,827	8,634	807	10.31%	81	309	390
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	48,945	63,357	14,412	29.45%	1,441	2,121	3,563
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,644	5,790	1,146	24.68%	115	303	418
35-3031	Waiters and Waitresses	39,866	48,218	8,352	20.95%	835	2,051	2,886
35-3041	Food Servers, Nonrestaurant	2,886	3,390	504	17.46%	50	97	147
35-9000	Other Food Preparation and Serving Related Workers	27,391	32,301	4,910	17.93%	491	909	1,400
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	10,471	12,807	2,336	22.31%	234	350	584
35-9021	Dishwashers	10,942	12,311	1,369	12.51%	137	369	506
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	5,608	6,671	1,063	18.96%	106	178	285
35-9099	Food Preparation and Serving Related Workers, All Other	370	512	142	38.38%	14	12	26
37-0000	Building and Grounds Cleaning and Maintenance Occupations	98,033	124,150	26,117	26.64%	2,612	1,967	4,578
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	8,661	10,860	2,199	25.39%	220	141	361
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	4,260	5,224	964	22.63%	96	101	197
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	4,401	5,636	1,235	28.06%	124	41	164
37-2000	Building Cleaning and Pest Control Workers	57,365	71,730	14,365	25.04%	1,437	1,130	2,566

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
37-2011	Janitors and Cleaners, Except Maids and Housekeeping	31,624	40,053	8,429	26.65%	843	600	1,443
37-2012	Maids and Housekeeping Cleaners	23,880	29,353	5,473	22.92%	547	501	1,049
37-2021	Pest Control Workers	1,861	2,324	463	24.88%	46	28	74
37-3000	Grounds Maintenance Workers	32,007	41,560	9,553	29.85%	955	696	1,651
37-3011	Landscaping and Groundskeeping Workers	30,701	39,985	9,284	30.24%	928	668	1,597
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	381	389	8	2.10%	#	8	8
37-3013	Tree Trimmers and Pruners	157	195	38	24.20%	4	3	7
37-9099	Building and Grounds Cleaning and Maintenance Workers, All Other (OES Only)	768	991	223	29.04%	22	16	38
39-0000	Personal Care and Service Occupations	65,078	76,987	11,909	18.30%	1,191	1,592	2,783
39-1000	Supervisors, Personal Care and Service Workers	5,121	5,502	381	7.44%	38	119	157
39-1011	Gaming Supervisors	840	955	115	13.69%	12	18	29
39-1012	Slot Key Persons	1,389	1,533	144	10.37%	14	29	44
39-1021	First-Line Supervisors/Managers of Personal Service Workers	2,892	3,014	122	4.22%	12	73	85
39-2000	Animal Care and Service Workers	3,463	4,232	769	22.21%	77	85	162
39-2011	Animal Trainers	312	381	69	22.12%	7	6	13
39-2021	Nonfarm Animal Caretakers	3,151	3,851	700	22.22%	70	78	148
39-3000	Entertainment Attendants and Related Workers	11,145	13,048	1,903	17.07%	190	394	584
39-3011	Gaming Dealers	1,282	1,465	183	14.27%	18	41	59
39-3012	Gaming and Sports Book Writers and Runners	426	544	118	27.70%	12	14	25
39-3021	Motion Picture Projectionists	106	88	-18	-16.98%	0	6	6
39-3031	Ushers, Lobby Attendants, and Ticket Takers	2,298	2,371	73	3.18%	7	131	138
39-3091	Amusement and Recreation Attendants	5,993	7,312	1,319	22.01%	132	173	305
39-3092	Costume Attendants	15	19	4	26.67%	#	0	0
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	368	463	95	25.82%	10	11	20
39-3199	Gaming Workers, All Other (OES Only)	657	786	129	19.63%	13	20	33
39-4000	Funeral Service Workers	249	270	21	8.43%	2	5	7
39-4011	Embalmers	117	121	4	3.42%	#	2	2
39-4021	Funeral Attendants	132	149	17	12.88%	2	3	5
39-5000	Personal Appearance Workers	13,748	14,203	455	3.31%	46	279	324
39-5011	Barbers	1,572	1,543	-29	-1.84%	0	44	44
39-5012	Hairdressers, Hairstylists, and Cosmetologists	9,993	10,259	266	2.66%	27	192	219
39-5091	Makeup Artists, Theatrical and Performance	**	**	**	**	**	**	**
39-5092	Manicurists and Pedicurists	1,559	1,734	175	11.23%	18	30	48
39-5093	Shampooers	181	205	24	13.26%	2	4	6
39-5094	Skin Care Specialists	441	460	19	4.31%	2	9	10
39-6000	Transportation, Tourism, and Lodging Attendants	6,788	8,313	1,525	22.47%	153	125	277
39-6011	Baggage Porters and Bellhops	1,007	1,148	141	14.00%	14	27	41

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
39-6012	Concierges	499	586	87	17.43%	9	13	22
39-6021	Tour Guides and Escorts	1,149	1,447	298	25.94%	30	30	60
39-6022	Travel Guides	107	133	26	24.30%	3	3	5
39-6031	Flight Attendants	**	**	**	**	**	**	**
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	91	119	28	30.77%	3	1	4
39-9000	Other Personal Care and Service Workers	24,564	31,419	6,855	27.91%	686	586	1,271
39-9011	Child Care Workers	11,390	13,795	2,405	21.12%	241	310	551
39-9021	Personal and Home Care Aides	3,360	4,985	1,625	48.36%	163	54	216
39-9031	Fitness Trainers and Aerobics Instructors	2,595	3,628	1,033	39.81%	103	60	163
39-9032	Recreation Workers	4,864	6,098	1,234	25.37%	123	112	235
39-9041	Residential Advisors	335	421	86	25.67%	9	7	16
39-9099	Personal Care and Service Workers, All Other	2,020	2,492	472	23.37%	47	43	91
41-0000	Sales and Related Occupations	268,263	329,518	61,255	22.83%	6,126	8,611	14,736
41-1000	Supervisors, Sales Workers	39,931	47,474	7,543	18.89%	754	728	1,482
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	28,277	34,310	6,033	21.34%	603	508	1,111
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	11,654	13,164	1,510	12.96%	151	220	371
41-2000	Retail Sales Workers	143,063	180,615	37,552	26.25%	3,755	5,982	9,737
41-2011	Cashiers	63,549	85,242	21,693	34.14%	2,169	3,092	5,261
41-2012	Gaming Change Persons and Booth Cashiers	840	1,015	175	20.83%	18	41	58
41-2021	Counter and Rental Clerks	7,756	9,400	1,644	21.20%	164	297	461
41-2022	Parts Salespersons	3,355	3,591	236	7.03%	24	96	120
41-2031	Retail Salespersons	67,563	81,367	13,804	20.43%	1,380	2,456	3,836
41-3000	Sales Representatives, Services	16,912	20,237	3,325	19.66%	333	329	662
41-3011	Advertising Sales Agents	3,301	3,807	506	15.33%	51	64	115
41-3021	Insurance Sales Agents	5,357	6,167	810	15.12%	81	128	209
41-3031	Securities, Commodities, and Financial Services Sales Agents	4,300	5,197	897	20.86%	90	49	138
41-3041	Travel Agents	3,954	5,066	1,112	28.12%	111	89	200
41-4000	Sales Representatives, Wholesale and Manufacturing	37,279	47,693	10,414	27.94%	1,041	979	2,020
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	13,481	16,893	3,412	25.31%	341	354	695
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	23,798	30,800	7,002	29.42%	700	625	1,325
41-9000	Other Sales and Related Workers	31,078	33,499	2,421	7.79%	242	593	835
41-9011	Demonstrators and Product Promoters	986	1,615	629	63.79%	63	22	85
41-9012	Models	133	155	22	16.54%	2	3	5
41-9021	Real Estate Brokers	2,429	2,490	61	2.51%	6	48	54
41-9022	Real Estate Sales Agents	6,968	7,659	691	9.92%	69	138	207

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
41-9031	Sales Engineers	1,782	2,087	305	17.12%	31	53	84
41-9041	Telemarketers	11,908	11,058	-850	-7.14%	0	195	195
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	443	371	-72	-16.25%	0	10	10
41-9099	Sales and Related Workers, All Other	6,429	8,064	1,635	25.43%	164	122	286
43-0000	Office and Administrative Support Occupations	413,296	473,384	60,088	14.54%	6,009	9,295	15,303
43-1000	Supervisors, Office and Administrative Support Workers	26,352	29,794	3,442	13.06%	344	565	910
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	26,352	29,794	3,442	13.06%	344	565	910
43-2000	Communications Equipment Operators	5,087	5,005	-82	-1.61%	0	128	128
43-2011	Switchboard Operators, Including Answering Service	4,054	4,362	308	7.60%	31	104	135
43-2021	Telephone Operators	543	263	-280	-51.57%	0	14	14
43-2099	Communications Equipment Operators, All Other	490	380	-110	-22.45%	0	11	11
43-3000	Financial Clerks	65,247	75,843	10,596	16.24%	1,060	1,483	2,543
43-3011	Bill and Account Collectors	12,674	15,365	2,691	21.23%	269	239	508
43-3021	Billing and Posting Clerks and Machine Operators	8,046	9,340	1,294	16.08%	129	137	266
43-3031	Bookkeeping, Accounting, and Auditing Clerks	31,349	34,646	3,297	10.52%	330	587	917
43-3041	Gaming Cage Workers	837	1,013	176	21.03%	18	41	58
43-3051	Payroll and Timekeeping Clerks	4,521	5,290	769	17.01%	77	120	196
43-3061	Procurement Clerks	1,047	1,092	45	4.30%	5	27	31
43-3071	Tellers	6,773	9,097	2,324	34.31%	232	334	566
43-4000	Information and Record Clerks	114,840	141,650	26,810	23.35%	2,681	2,378	5,059
43-4011	Brokerage Clerks	1,282	1,119	-163	-12.71%	0	17	17
43-4021	Correspondence Clerks	318	346	28	8.81%	3	10	12
43-4031	Court, Municipal, and License Clerks	2,898	3,531	633	21.84%	63	64	128
43-4041	Credit Authorizers, Checkers, and Clerks	2,672	2,554	-118	-4.42%	0	51	51
43-4051	Customer Service Representatives	45,869	59,210	13,341	29.09%	1,334	682	2,016
43-4061	Eligibility Interviewers, Government Programs	3,858	3,636	-222	-5.75%	0	103	103
43-4071	File Clerks	5,480	5,735	255	4.65%	26	163	188
43-4081	Hotel, Motel, and Resort Desk Clerks	3,836	4,756	920	23.98%	92	172	264
43-4111	Interviewers, Except Eligibility and Loan	4,053	6,065	2,012	49.64%	201	105	306
43-4121	Library Assistants, Clerical	1,231	1,564	333	27.05%	33	50	83
43-4131	Loan Interviewers and Clerks	4,988	4,779	-209	-4.19%	0	68	68
43-4141	New Accounts Clerks	1,290	1,792	502	38.91%	50	32	83
43-4151	Order Clerks	5,978	5,724	-254	-4.25%	0	134	134
43-4161	Human Resources Assistants, Except Payroll & Timekeeping	4,111	5,272	1,161	28.24%	116	89	205
43-4171	Receptionists and Information Clerks	19,648	27,172	7,524	38.29%	752	483	1,235
43-4181	Reservation and Transportation Ticket Agents and Travel	3,854	4,521	667	17.31%	67	101	167

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
43-4999	Financial, Information, and Record Clerks, All Other (OES	3,474	3,874	400	11.51%	40	55	95
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	64,292	70,960	6,668	10.37%	667	1,874	2,541
43-5011	Cargo and Freight Agents	1,728	2,362	634	36.69%	63	39	102
43-5021	Couriers and Messengers	2,459	2,526	67	2.72%	7	56	63
43-5031	Police, Fire, and Ambulance Dispatchers	1,574	1,939	365	23.19%	37	34	70
43-5032	Dispatchers, Except Police, Fire, and Ambulance	3,448	3,951	503	14.59%	50	74	124
43-5041	Meter Readers, Utilities	1,949	1,907	-42	-2.15%	0	62	62
43-5051	Postal Service Clerks	909	1,030	121	13.31%	12	24	36
43-5052	Postal Service Mail Carriers	4,908	5,551	643	13.10%	64	154	218
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	3,508	3,572	64	1.82%	6	93	99
43-5061	Production, Planning, and Expediting Clerks	5,423	6,380	957	17.65%	96	131	227
43-5071	Shipping, Receiving, and Traffic Clerks	12,036	14,253	2,217	18.42%	222	247	469
43-5081	Stock Clerks and Order Fillers	24,993	25,792	799	3.20%	80	925	1,005
43-5111	Weighers, Measurers, Checkers, and Samplers,	1,191	1,530	339	28.46%	34	30	64
43-5199	Material Recording, Scheduling, Dispatching, and Distributing Workers, All Other (OES Only)	166	167	1	0.60%	#	6	6
43-6000	Secretaries and Administrative Assistants	62,706	68,572	5,866	9.35%	587	1,201	1,787
43-6011	Executive Secretaries and Administrative Assistants	29,502	33,401	3,899	13.22%	390	565	955
43-6012	Legal Secretaries	3,537	4,232	695	19.65%	70	68	137
43-6013	Medical Secretaries	2,516	3,440	924	36.72%	92	48	141
43-6014	Secretaries, Except Legal, Medical, and Executive	27,151	27,499	348	1.28%	35	520	555
43-9000	Other Office and Administrative Support Workers	74,772	81,560	6,788	9.08%	679	1,665	2,344
43-9011	Computer Operators	3,491	3,085	-406	-11.63%	0	74	74
43-9021	Data Entry Keyers	10,258	9,765	-493	-4.81%	0	242	242
43-9022	Word Processors and Typists	3,908	2,514	-1,394	-35.67%	0	86	86
43-9031	Desktop Publishers	246	320	74	30.08%	7	6	13
43-9041	Insurance Claims and Policy Processing Clerks	3,913	4,397	484	12.37%	48	63	111
43-9051	Mail Clerks and Mail Machine Operators, Except Postal	2,755	2,843	88	3.19%	9	82	91
43-9061	Office Clerks, General	43,056	51,465	8,409	19.53%	841	954	1,795
43-9071	Office Machine Operators, Except Computer	2,003	1,929	-74	-3.69%	0	51	51
43-9081	Proofreaders and Copy Markers	729	599	-130	-17.83%	0	15	15
43-9111	Statistical Assistants	228	225	-3	-1.32%	0	4	4
43-9999	Secretaries, Administrative Assistants, and Other Office Support Workers, All Other (OES Only)	4,185	4,418	233	5.57%	23	89	112
45-0000	Farming, Fishing, and Forestry Occupations	24,974	23,062	-1,912	-7.66%	0	689	689
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	1,303	1,266	-37	-2.84%	0	30	30

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	1,159	1,087	-72	-6.21%	0	27	27
45-1012	Farm Labor Contractors	144	179	35	24.31%	4	3	7
45-2000	Agricultural Workers	21,886	19,977	-1,909	-8.72%	0	617	617
45-2011	Agricultural Inspectors	274	310	36	13.14%	4	7	10
45-2021	Animal Breeders	53	44	-9	-16.98%	0	1	1
45-2041	Graders and Sorters, Agricultural Products	975	968	-7	-0.72%	0	26	26
45-2091	Agricultural Equipment Operators	1,695	1,585	-110	-6.49%	0	48	48
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	17,889	16,096	-1,793	-10.02%	0	507	507
45-2093	Farmworkers, Farm and Ranch Animals	1,000	974	-26	0	0	28	28
45-3000	Fishing and Hunting Workers	14	11	-3	0	0	1	1
45-3011	Fishers and Related Fishing Workers	**	**	**	**	**	**	**
45-3021	Hunters and Trappers	11	9	-2	-18.18%	0	1	1
45-4000	Forest, Conservation, and Logging Workers	310	306	-4	-1.29%	0	6	6
45-4011	Forest and Conservation Workers	49	46	-3	-6.12%	0	1	1
45-4021	Fallers	78	73	-5	-6.41%	0	1	1
45-4022	Logging Equipment Operators	156	154	-2	-1.28%	0	3	3
45-4023	Log Graders and Scalers	27	33	6	22.22%	#	1	1
45-9000	Other Farming, Fishing, and Forestry Workers	1,461	1,502	41	2.81%	4	35	39
45-9099	Farming, Fishing, and Forestry Workers, All Other (OES Only)	1,461	1,502	41	2.81%	4	35	39
47-0000	Construction and Extraction Occupations	191,348	251,662	60,314	31.52%	6,031	3,970	10,001
47-1000	Supervisors, Construction and Extraction Workers	16,243	21,290	5,047	31.07%	505	276	781
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	16,243	21,290	5,047	31.07%	505	276	781
47-2000	Construction Trades Workers	142,554	188,217	45,663	32.03%	4,566	2,606	7,172
47-2011	Boilermakers	437	518	81	18.54%	8	16	24
47-2021	Brickmasons and Blockmasons	3,783	5,174	1,391	36.77%	139	56	195
47-2022	Stonemasons	590	852	262	44.41%	26	9	35
47-2031	Carpenters	33,869	44,581	10,712	31.63%	1,071	551	1,623
47-2041	Carpet Installers	2,648	3,423	775	29.27%	78	41	119
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	577	739	162	28.08%	16	9	25
47-2044	Tile and Marble Setters	1,777	2,551	774	43.56%	77	28	105
47-2051	Cement Masons and Concrete Finishers	8,322	12,380	4,058	48.76%	406	168	573
47-2053	Terrazzo Workers and Finishers	332	439	107	32.23%	11	7	17
47-2061	Construction Laborers	22,898	28,950	6,052	26.43%	605	305	910
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,382	1,760	378	27.35%	38	20	58
47-2072	Pile-Driver Operators	15	19	4	26.67%	#	0	0
47-2073	Operating Engineers and Other Construction Equipment	9,093	10,633	1,540	16.94%	154	234	388

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SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
47-2081	Drywall and Ceiling Tile Installers	6,532	9,435	2,903	44.44%	290	142	432
47-2082	Tapers	3,767	5,377	1,610	42.74%	161	82	243
47-2111	Electricians	11,129	15,062	3,933	35.34%	393	220	613
47-2121	Glaziers	965	1,305	340	35.23%	34	20	54
47-2130	Insulation Workers	876	1,134	258	29.45%	26	26	52
47-2141	Painters, Construction and Maintenance	9,178	12,020	2,842	30.97%	284	140	424
47-2142	Paperhangers	763	895	132	17.30%	13	10	23
47-2151	Pipelayers	1,119	1,367	248	22.16%	25	26	51
47-2152	Plumbers, Pipefitters, and Steamfitters	8,299	10,851	2,552	30.75%	255	191	446
47-2161	Plasterers and Stucco Masons	3,961	5,327	1,366	34.49%	137	73	209
47-2171	Reinforcing Iron and Rebar Workers	688	819	131	19.04%	13	13	27
47-2181	Roofers	4,177	5,775	1,598	38.26%	160	97	257
47-2211	Sheet Metal Workers	4,122	5,071	949	23.02%	95	99	194
47-2221	Structural Iron and Steel Workers	1,255	1,760	505	40.24%	51	25	75
47-3000	Helpers, Construction Trades	19,827	25,943	6,116	30.85%	612	823	1,435
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	2,054	2,495	441	21.47%	44	85	129
47-3012	Helpers--Carpenters	6,014	8,129	2,115	35.17%	212	250	461
47-3013	Helpers--Electricians	2,960	3,844	884	29.86%	88	123	211
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco	2,727	3,719	992	36.38%	99	113	212
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	3,403	4,157	754	22.16%	75	141	217
47-3016	Helpers--Roofers	1,130	1,603	473	41.86%	47	47	94
47-3019	Helpers, Construction Trades, All Other	1,539	1,996	457	29.69%	46	64	110
47-4000	Other Construction and Related Workers	7,609	9,438	1,829	24.04%	183	156	339
47-4011	Construction and Building Inspectors	2,312	3,009	697	30.15%	70	52	122
47-4021	Elevator Installers and Repairers	305	386	81	26.56%	8	8	16
47-4031	Fence Erectors	959	952	-7	-0.73%	0	14	14
47-4041	Hazardous Materials Removal Workers	1,363	1,909	546	40.06%	55	36	91
47-4051	Highway Maintenance Workers	1,938	2,320	382	19.71%	38	28	66
47-4061	Rail-Track Laying and Maintenance Equipment Operators	226	208	-18	-7.96%	0	5	5
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	448	585	137	30.58%	14	12	26
47-4091	Segmental Pavers	58	69	11	18.97%	1	1	2
47-4900	All Other Construction Trades and Related Workers	2,394	3,529	1,135	47.41%	114	38	152
47-4999	Construction Trades and Related Workers, All Other (OES)	2,394	3,529	1,135	47.41%	114	38	152
47-5000	Extraction Workers	2,721	3,245	524	19.26%	52	71	123
47-5011	Derrick Operators, Oil and Gas	49	58	9	18.37%	#	1	1
47-5012	Rotary Drill Operators, Oil and Gas	16	14	-2	-12.50%	0	1	1
47-5013	Service Unit Operators, Oil, Gas, and Mining	**	**	**	**	**	**	**

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
47-5021	Earth Drillers, Except Oil and Gas	595	644	49	8.24%	5	13	18
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	124	141	17	13.71%	2	5	6
47-5041	Continuous Mining Machine Operators	480	455	-25	-5.21%	0	14	14
47-5042	Mine Cutting and Channeling Machine Operators	71	72	1	1.41%	#	2	2
47-5049	Mining Machine Operators, All Other	45	48	3	6.67%	#	1	1
47-5051	Rock Splitters, Quarry	229	260	31	13.54%	3	6	9
47-5061	Roof Bolters, Mining	**	**	**	**	**	**	**
47-5071	Roustabouts, Oil and Gas	29	38	9	31.03%	#	1	1
47-5081	Helpers--Extraction Workers	987	1,417	430	43.57%	43	28	71
47-5099	Extraction Workers, All Other	79	82	3	3.80%	#	2	2
49-0000	Installation, Maintenance, and Repair Occupations	104,910	126,425	21,515	20.51%	2,152	2,452	4,604
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	8,384	10,254	1,870	22.30%	187	210	397
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	8,384	10,254	1,870	22.30%	187	210	397
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	14,787	16,037	1,250	8.45%	125	296	421
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,682	1,983	301	17.90%	30	20	51
49-2021	Radio Mechanics	168	109	-59	-35.12%	0	4	4
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	5,282	5,260	-22	-0.42%	0	109	109
49-2091	Avionics Technicians	555	634	79	14.23%	8	13	21
49-2092	Electric Motor, Power Tool, and Related Repairers	182	209	27	14.84%	3	4	7
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	244	287	43	17.62%	4	6	10
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	3,367	3,526	159	4.72%	16	74	90
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	136	170	34	25.00%	3	3	6
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	162	187	25	15.43%	3	4	6
49-2097	Electronic Home Entertainment Equipment Installers and	1,019	1,147	128	12.56%	13	20	33
49-2098	Security and Fire Alarm Systems Installers	1,731	2,209	478	27.61%	48	33	81
49-2099	Electrical and Electronic Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	259	316	57	22.01%	6	5	11
49-3000	Vehicle and Mobile Equipment Mechanics, Installers	36,113	43,247	7,134	19.75%	713	947	1,660
49-3011	Aircraft Mechanics and Service Technicians	3,270	4,098	828	25.32%	83	77	160
49-3021	Automotive Body and Related Repairers	3,354	3,943	589	17.56%	59	68	127
49-3022	Automotive Glass Installers and Repairers	1,133	1,227	94	8.30%	9	22	31
49-3023	Automotive Service Technicians and Mechanics	16,534	19,843	3,309	20.01%	331	440	771

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4,535	5,398	863	19.03%	86	117	203
49-3041	Farm Equipment Mechanics	249	265	16	6.43%	2	5	7
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,961	3,370	409	13.81%	41	64	105
49-3043	Rail Car Repairers	114	131	17	14.91%	2	3	4
49-3051	Motorboat Mechanics	245	319	74	30.20%	7	6	14
49-3052	Motorcycle Mechanics	166	223	57	34.34%	6	4	10
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	299	357	58	19.40%	6	7	13
49-3091	Bicycle Repairers	119	149	30	25.21%	3	5	8
49-3092	Recreational Vehicle Service Technicians	577	763	186	32.24%	19	25	43
49-3093	Tire Repairers and Changers	2,248	2,785	537	23.89%	54	96	149
49-3099	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	309	376	67	21.68%	7	8	15
49-9000	Other Installation, Maintenance, and Repair Occupations	45,626	56,887	11,261	24.68%	1,126	1,000	2,126
49-9011	Mechanical Door Repairers	83	113	30	36.14%	3	2	5
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	994	1,354	360	36.22%	36	25	61
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,898	6,878	1,980	40.42%	198	65	263
49-9031	Home Appliance Repairers	642	667	25	3.89%	3	15	18
49-9041	Industrial Machinery Mechanics	1,111	1,270	159	14.31%	16	22	38
49-9042	Maintenance and Repair Workers, General	20,076	25,347	5,271	26.26%	527	386	913
49-9043	Maintenance Workers, Machinery	1,953	2,118	165	8.45%	17	44	61
49-9044	Millwrights	409	474	65	15.89%	7	10	16
49-9045	Refractory Materials Repairers, Except Brickmasons	18	21	3	16.67%	#	0	0
49-9051	Electrical Power-Line Installers and Repairers	1,007	1,256	249	24.73%	25	32	57
49-9052	Telecommunications Line Installers and Repairers	3,359	3,957	598	17.80%	60	91	151
49-9061	Camera and Photographic Equipment Repairers	29	26	-3	-10.34%	0	1	1
49-9062	Medical Equipment Repairers	210	285	75	35.71%	8	6	13
49-9063	Musical Instrument Repairers and Tuners	539	542	3	0.56%	#	15	15
49-9064	Watch Repairers	318	361	43	13.52%	4	9	13
49-9069	Precision Instrument and Equipment Repairers, All Other	111	123	12	10.81%	1	3	4
49-9091	Coin, Vending, and Amusement Machine Servicers and	503	621	118	23.46%	12	12	24
49-9092	Commercial Divers	40	44	4	10.00%	#	1	1
49-9093	Fabric Menders, Except Garment	22	27	5	22.73%	#	1	1
49-9094	Locksmiths and Safe Repairers	574	606	32	5.57%	3	19	22
49-9095	Manufactured Building and Mobile Home Installers	418	524	106	25.36%	11	10	21
49-9096	Riggers	102	135	33	32.35%	3	2	6
49-9097	Signal and Track Switch Repairers	315	400	85	26.98%	9	11	20

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
49-9098	Helpers--Installation, Maintenance, and Repair Workers	3,393	4,250	857	25.26%	86	115	201
49-9099	Installation, Maintenance, and Repair Workers, All Other	4,502	5,488	986	21.90%	99	102	201
51-0000	Production Occupations	129,667	145,116	15,449	11.91%	1,545	3,153	4,698
51-1000	Supervisors, Production Workers	8,876	9,929	1,053	11.86%	105	186	291
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	8,876	9,929	1,053	11.86%	105	186	291
51-2000	Assemblers and Fabricators	27,969	28,316	347	1.24%	35	714	748
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems	**	**	**	**	**	**	**
51-2021	Coil Winders, Tapers, and Finishers	455	355	-100	-21.98%	0	11	11
51-2022	Electrical and Electronic Equipment Assemblers	3,046	2,543	-503	-16.51%	0	72	72
51-2023	Electromechanical Equipment Assemblers	682	696	14	2.05%	1	16	18
51-2031	Engine and Other Machine Assemblers	368	376	8	2.17%	#	10	10
51-2041	Structural Metal Fabricators and Fitters	799	840	41	5.13%	4	19	23
51-2091	Fiberglass Laminators and Fabricators	220	250	30	13.64%	3	6	9
51-2092	Team Assemblers	19,612	20,159	547	2.79%	55	507	562
51-2093	Timing Device Assemblers, Adjusters, and Calibrators	187	184	-3	-1.60%	0	5	5
51-2099	Assemblers and Fabricators, All Other	1,928	2,200	272	14.11%	27	50	77
51-3000	Food Processing Workers	7,531	8,453	922	12.24%	92	173	265
51-3011	Bakers	3,203	3,791	588	18.36%	59	74	133
51-3021	Butchers and Meat Cutters	1,832	1,837	5	0.27%	#	40	40
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,015	1,068	53	5.22%	5	22	28
51-3023	Slaughterers and Meat Packers	103	108	5	4.85%	#	2	2
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	171	186	15	8.77%	2	5	6
51-3092	Food Batchmakers	861	1,062	201	23.34%	20	21	41
51-3093	Food Cooking Machine Operators and Tenders	342	392	50	14.62%	5	8	13
51-3099	Food Processing Workers, All Other (OES Only)	**	**	**	**	**	**	**
51-4000	Metal Workers and Plastic Workers	23,878	25,762	1,884	7.89%	188	585	773
51-4011	Computer-Controlled Machine Tool Operators, Metal and	911	941	30	3.29%	3	15	18
51-4012	Numerical Tool and Process Control Programmers	393	394	1	0.25%	#	7	7
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1,313	1,396	83	6.32%	8	44	52
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	395	452	57	14.43%	6	6	12
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	373	399	26	6.97%	3	8	11
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	2,565	2,734	169	6.59%	17	59	76

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	486	441	-45	-9.26%	0	14	14
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,121	1,077	-44	-3.93%	0	21	21
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	676	645	-31	-4.59%	0	13	13
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	515	527	12	2.33%	1	9	10
51-4041	Machinists	4,465	4,930	465	10.41%	47	104	151
51-4051	Metal-Refining Furnace Operators and Tenders	79	76	-3	-3.80%	0	2	2
51-4052	Pourers and Casters, Metal	101	94	-7	-6.93%	0	2	2
51-4061	Model Makers, Metal and Plastic	53	58	5	9.43%	#	2	2
51-4062	Patternmakers, Metal and Plastic	29	24	-5	-17.24%	0	1	1
51-4071	Foundry Mold and Coremakers	259	234	-25	-9.65%	0	6	6
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,156	1,130	-26	-2.25%	0	29	29
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	445	465	20	4.49%	2	12	14
51-4111	Tool and Die Makers	800	783	-17	-2.13%	0	18	18
51-4121	Welders, Cutters, Solderers, and Brazers	5,335	6,575	1,240	23.24%	124	151	275
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	553	533	-20	-3.62%	0	16	16
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	257	259	2	0.78%	#	8	8
51-4192	Lay-Out Workers, Metal and Plastic	164	174	10	6.10%	1	3	4
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	816	759	-57	-6.99%	0	18	18
51-4194	Tool Grinders, Filers, and Sharpeners	313	291	-22	-7.03%	0	10	10
51-4199	Metal Workers and Plastic Workers, All Other	305	371	66	21.64%	7	7	14
51-5000	Printing Workers	5,424	5,259	-165	-3.04%	0	130	130
51-5011	Bindery Workers	935	841	-94	-10.05%	0	25	25
51-5012	Bookbinders	35	32	-3	-8.57%	0	1	1
51-5021	Job Printers	1,102	1,144	42	3.81%	4	26	30
51-5022	Prepress Technicians and Workers	1,007	842	-165	-16.39%	0	24	24
51-5023	Printing Machine Operators	2,345	2,400	55	2.35%	6	54	60
51-6000	Textile, Apparel, and Furnishings Workers	10,475	12,831	2,356	22.49%	236	226	461
51-6011	Laundry and Dry-Cleaning Workers	3,734	4,563	829	22.20%	83	102	184
51-6021	Pressers, Textile, Garment, and Related Materials	905	1,084	179	19.78%	18	14	32

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
51-6031	Sewing Machine Operators	1,837	2,263	426	23.19%	43	23	65
51-6041	Shoe and Leather Workers and Repairers	169	170	1	0.59%	#	5	5
51-6042	Shoe Machine Operators and Tenders	142	145	3	2.11%	#	2	2
51-6051	Sewers, Hand	347	404	57	16.43%	6	6	12
51-6052	Tailors, Dressmakers, and Custom Sewers	697	681	-16	-2.30%	0	12.1	12.1
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	34	61	27	79.41%	2.7	0.9	3.6
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	95	119	24	25.26%	2	2	5
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	21	22	1	4.76%	#	0	0
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	477	488	11	2.31%	1	9	10
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	53	62	9	16.98%	#	1	1
51-6092	Fabric and Apparel Patternmakers	68	74	6	8.82%	#	3	3
51-6093	Upholsterers	586	523	-63	-10.75%	0	15	15
51-6099	Textile, Apparel, and Furnishings Workers, All Other	1,310	2,172	862	65.80%	86	31	117
51-7000	Woodworkers	4,313	4,530	217	5.03%	22	109	131
51-7011	Cabinetmakers and Bench Carpenters	2,054	2,226	172	8.37%	17	52	69
51-7021	Furniture Finishers	641	652	11	1.72%	1	13	14
51-7031	Model Makers, Wood	63	68	5	7.94%	#	2	2
51-7032	Patternmakers, Wood	76	83	7	9.21%	#	2	2
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	587	615	28	4.77%	3	17	19
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	731	722	-9	-1.23%	0	19	19
51-7099	Woodworkers, All Other	161	164	3	1.86%	#	5	5
51-8000	Plant and System Operators	4,698	5,613	915	19.48%	92	132	223
51-8011	Nuclear Power Reactor Operators	**	**	**	**	**	**	**
51-8012	Power Distributors and Dispatchers	570	636	66	11.58%	7	15	22
51-8013	Power Plant Operators	**	**	**	**	**	**	**
51-8021	Stationary Engineers and Boiler Operators	978	1,086	108	11.04%	11	18	29
51-8031	Water and Liquid Waste Treatment Plant and System	1,544	1,928	384	24.87%	38	53	92
51-8091	Chemical Plant and System Operators	151	185	34	22.52%	3	5	8
51-8092	Gas Plant Operators	38	48	10	26.32%	1	1	2
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	116	127	11	9.48%	1	4	5
51-8099	Plant and System Operators, All Other	226	276	50	22.12%	5	7	12
51-9000	Other Production Occupations	36,503	44,423	7,920	21.70%	792	899	1,691
51-9011	Chemical Equipment Operators and Tenders	164	174	10	6.10%	1	5	6

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	559	561	2	0.36%	#	18	18
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	973	996	23	2.36%	2	25	28
51-9022	Grinding and Polishing Workers, Hand	1,745	2,350	605	34.67%	61	46	106
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	712	732	20	2.81%	2	19	21
51-9031	Cutters and Trimmers, Hand	206	222	16	7.77%	2	4	6
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	760	856	96	12.63%	10	16	25
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	781	736	-45	-5.76%	0	21	21
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	135	124	-11	-8.15%	0	3	3
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	5,644	6,265	621	11.00%	62	128	191
51-9071	Jewelers and Precious Stone and Metal Workers	244	281	37	15.16%	4	5	9
51-9081	Dental Laboratory Technicians	1,127	1,252	125	11.09%	13	25	37
51-9082	Medical Appliance Technicians	140	165	25	17.86%	3	3	6
51-9083	Ophthalmic Laboratory Technicians	516	570	54	10.47%	5	11	17
51-9111	Packaging and Filling Machine Operators and Tenders	3,867	6,271	2,404	62.17%	240	77	317
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	986	1,114	128	12.98%	13	26	39
51-9122	Painters, Transportation Equipment	548	653	105	19.16%	11	14	25
51-9123	Painting, Coating, and Decorating Workers	608	714	106	17.43%	11	16	27
51-9131	Photographic Process Workers	256	238	-18	-7.03%	0	6	6
51-9132	Photographic Processing Machine Operators	385	449	64	16.62%	6	10	16
51-9141	Semiconductor Processors	**	**	**	**	**	**	**
51-9191	Cementing and Gluing Machine Operators and Tenders	76	78	2	2.63%	#	2	2
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	151	166	15	9.93%	2	4	6
51-9193	Cooling and Freezing Equipment Operators and Tenders	61	68	7	11.48%	#	2	2
51-9194	Etchers and Engravers	112	122	10	8.93%	1	3	4
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	897	885	-12	-1.34%	0	21	21
51-9196	Paper Goods Machine Setters, Operators, and Tenders	495	546	51	10.30%	5	11	16
51-9197	Tire Builders	60	76	16	26.67%	2	1	3
51-9198	Helpers--Production Workers	10,121	13,098	2,977	29.41%	298	284	581
51-9199	Production Workers, All Other	2,564	3,261	697	27.18%	70	61	131
53-0000	Transportation and Material Moving Occupations	158,162	191,030	32,868	20.78%	3,287	3,599	6,886
53-1000	Supervisors, Transportation and Material Moving Workers	6,227	7,394	1,167	18.74%	117	147	263
53-1011	Aircraft Cargo Handling Supervisors	130	147	17	13.08%	2	3	5

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	2,225	2,645	420	18.88%	42	52	94
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	3,872	4,602	730	18.85%	73	91	164
53-2000	Air Transportation Workers	4,098	5,039	941	22.96%	94	108	202
53-2011	Airline Pilots, Copilots, and Flight Engineers	2,712	3,350	638	23.53%	64	73	136
53-2012	Commercial Pilots	591	735	144	24.37%	14	16	30
53-2021	Air Traffic Controllers	296	360	64	21.62%	6	8	14
53-2022	Airfield Operations Specialists	183	197	14	7.65%	1	5	6
53-2099	Air Transportation Workers, All Other (OES Only)	316	397	81	25.63%	8	7	16
53-3000	Motor Vehicle Operators	64,287	78,326	14,039	21.84%	1,404	965	2,368
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	**	**	**	**	**	**	**
53-3021	Bus Drivers, Transit and Intercity	3,540	4,306	766	21.64%	77	77	154
53-3022	Bus Drivers, School	5,749	6,866	1,117	19.43%	112	125	237
53-3031	Driver/Sales Workers	8,089	9,114	1,025	12.67%	103	132	235
53-3032	Truck Drivers, Heavy and Tractor-Trailer	26,674	32,444	5,770	21.63%	577	436	1,013
53-3033	Truck Drivers, Light or Delivery Services	16,296	20,375	4,079	25.03%	408	150	557
53-3041	Taxi Drivers and Chauffeurs	1,988	2,526	538	27.06%	54	18	72
53-3099	Motor Vehicle Operators, All Other	1,805	2,480	675	37.40%	68	25	93
53-4000	Rail Transportation Workers	1,568	1,915	347	22.13%	35	40	74
53-4011	Locomotive Engineers	565	695	130	23.01%	13	17	30
53-4012	Locomotive Firers	**	**	**	**	**	**	**
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	18	22	4	0	#	1	1
53-4021	Railroad Brake, Signal, and Switch Operators	226	231	5	2.21%	#	2	2
53-4031	Railroad Conductors and Yardmasters	738	940	202	27.37%	20	20	40
53-4041	Subway and Streetcar Operators	**	**	**	**	**	**	**
53-4099	Rail Transportation Workers, All Other	**	**	**	**	**	**	**
53-5000	Water Transportation Workers	97	124	27	27.84%	3	3	5
53-5011	Sailors and Marine Oilers	25	33	8	32.00%	#	1	1
53-5021	Captains, Mates, and Pilots of Water Vessels	34	42	8	23.53%	#	1	1
53-5022	Motorboat Operators	**	**	**	**	**	**	**
53-5031	Ship Engineers	12	14	2	16.67%	#	1	1
53-5099	Water Transportation Workers, All Other (OES Only)	22	29	7	31.82%	#	1	1
53-6000	Other Transportation Workers	6,090	7,076	986	16.19%	99	211	310
53-6021	Parking Lot Attendants	2,220	2,561	341	15.36%	34	66	100
53-6031	Service Station Attendants	2,142	2,438	296	13.82%	30	96	126
53-6041	Traffic Technicians	170	204	34	20.00%	3	5	9

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Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total
53-6051	Transportation Inspectors	432	495	63	14.58%	6	10	17
53-6099	Transportation Workers, All Other	1,124	1,377	253	22.51%	25	34	59
53-7000	Material Moving Workers	75,795	91,156	15,361	20.27%	1,536	2,127	3,663
53-7011	Conveyor Operators and Tenders	871	928	57	6.54%	6	25	31
53-7021	Crane and Tower Operators	333	447	114	34.23%	11	7	19
53-7031	Dredge Operators	39	43	4	10.26%	#	1	1
53-7032	Excavating and Loading Machine and Dragline Operators	1,119	1,475	356	31.81%	36	31	66
53-7033	Loading Machine Operators, Underground Mining	72	77	5	6.94%	#	2	2
53-7041	Hoist and Winch Operators	34	38	4	11.76%	#	1	1
53-7051	Industrial Truck and Tractor Operators	5,244	6,232	988	18.84%	99	99	198
53-7061	Cleaners of Vehicles and Equipment	8,128	9,285	1,157	14.23%	116	283	399
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	37,610	45,371	7,761	20.64%	776	1,229	2,005
53-7063	Machine Feeders and Offbearers	1,208	1,150	-58	-4.80%	0	33	33
53-7064	Packers and Packagers, Hand	18,002	22,391	4,389	24.38%	439	337	776
53-7071	Gas Compressor and Gas Pumping Station Operators	17	33	16	94.12%	2	0	2
53-7072	Pump Operators, Except Wellhead Pumpers	48	57	9	18.75%	#	1	1
53-7073	Wellhead Pumpers	**	**	**	**	**	**	**
53-7081	Refuse and Recyclable Material Collectors	2,465	2,913	448	18.17%	45	63	108
53-7111	Shuttle Car Operators	**	**	**	**	**	**	**
53-7121	Tank Car, Truck, and Ship Loaders	77	87	10	12.99%	1	2	3
53-7199	Material Moving Workers, All Other	510	612	102	20.00%	10	14	24

*For more information on the Standard Occupational Classification (SOC) system, go to: www.bls.gov/soc/socguide.htm

For Occupational Dictionary, see:

http://www.workforce.az.gov/admin/uploadedPublications/1194_OccDictByCode.pdf

**Data suppressed due to confidentiality or base employment of 10 or less.

Occupations that are projected to increase by less than 10 opening over the 10 year period will have an annual average growth less than 1. For example, the annual average for an occupation projected to have 5 openings over the ten year period will have an annual average of 0.5. Since "fractional" openings are not calculated in these projections, this means the occupation is projected to have an average of one opening every two years.

Occupations in decline or with no growth will show annual openings due to growth as 0.

Total annual openings are the sum of openings from growth plus openings from separations. Separations are vacancies caused by workers leaving the labor market or changing occupations. Thus an occupation that is not growing or is in decline could still have openings due to separations.

2002-2012 Arizona Statewide Occupational Projections

Standard Occupation Classification (SOC)*		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2002 Estimated	2012 Projected	Number	Percent	Due to Growth	Due to Separations	Total

Headings in **bold** font are the major occupational groups of the Standard Occupational Classification (SOC) system.

Major occupational groups of the SOC are a composite of all individual occupations listed below the major group heading.

Occupation codes ending in 000 (e.g. 11-1000, 11-2000, 11-3000, etc) are a summation of all the occupations listed below them.

Totals may not add exactly due to rounding or suppression of data.

See Notes worksheet for additional information on methodology.

For more information on occupational projections, visit: <http://stats.bls.gov/emp/optd/home.htm>

Prepared by Arizona Dept of Economic Security, Research Administration in cooperation with the U.S. Dept of Labor, Bureau of Labor Statistics.

Methodology

Before using the data in this report, readers should understand this methodology and note its limitations. **The projections presented should be viewed as indicators of relative magnitude and probable direction rather than as forecasts of absolute occupational demand.** Furthermore, the occupational forecasts are only measures of expected employment and demand for labor and indicate little about future labor supply. It is therefore recommended that these data be used with other sources of occupational information.

The total occupational employment of the forecast will be greater than the total nonfarm employment estimated by the Current Employment Statistics (CES) program and Occupational Employment Survey (OES) program for the following reasons. First, self employed, unpaid family workers, and agriculture workers are included in the projections, but not in CES and OES. Next, some industries are not included in the OES data because of low survey response rate and a base employment level that is too small to make any statistically significant estimates.

Employment projections provided in this publication were developed in cooperation with and using techniques based on those developed by the U.S Department of Labor's Bureau of Labor Statistics. This methodology is comprised of five basic steps:

- 1) Industry employment data is compiled from CES and unemployment insurance tax records.
- 2) A fraction of the industry employment is assumed to be self employed or unpaid family workers. The fraction is determined from national surveys and is added to the state's industry employment data.
- 3) Staffing patterns from state and national data are used to divide each industry's total employment into the different occupations for that industry.
- 4) Each industry's total employment is calculated during the forecast period according to the industry projections for the same time period that were produced by DES Research Administration.
- 5) Total employment in any occupation is not only calculated by changes in the total industry employment, but also by changes in share of that occupation's employment in each industry. The change in the share of total industry employment of any occupation is known as the occupational change factor. When the occupational change factor is determined for each occupation in every industry, the occupational forecasts are finished.

To avoid the possible disclosure of confidential employer information, employment data have been suppressed if: less than three firms reported a single occupation; one firm reported more than 50 percent of the occupational estimate; or two firms combined reported more than 75 percent of the occupational estimate. In certain cases, releases may have been obtained from large employers to waive the confidentiality criteria.